

Appl. No. N/A  
Amdt. Dated September 15, 2003  
Preliminary Amendment

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-14 (cancelled)

Claim 15 (currently amended): A road antenna apparatus comprising:

a road antenna disposed above a road and establishing radio communication with an on-vehicle device mounted in a vehicle via a transmission wave;

Doppler signal processor which detects the traveling direction of the vehicle on the basis of a change arising in the frequency of a reflected wave due to the Doppler effect, the reflected wave being formed when the transmission wave emitted from the road antenna is reflected by the vehicle; and

control means which allows establishment of communication with the vehicle traveling in a redetermined direction.

Claim 16 (original): The road antenna apparatus as described in claim 15, further comprising:

reflected wave extraction means which receives the reflected wave and a receipt wave emitted from the on-vehicle device, the reflected wave extraction means extracts only the reflected wave.

Claims 17-26 (cancelled)